



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: JT8D-217 series
 UNIQUE ID NUMBER: 1PW018
 COMBUSTOR:
 ENGINE TYPE: MTF

BYPASS RATIO: 1.7
 PRESSURE RATIO (π_{00}): 19.7
 RATED THRUST (F_{00}) (kN): 92.7

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F ₀₀ (g/kN) or SN	15.6	42.7	74.9	17.1
AS % OF ORIGINAL LIMIT	79.4	36.2	94.4	70.8
AS % OF CAEP/2 LIMIT (NO _x)			118.0	
AS % OF CAEP/4 LIMIT (NO _x)			148.4	
AS % OF CAEP/6 LIMIT (NO _x)			168.6	
AS % OF CAEP/8 LIMIT (NO _x)			210.6	

DATA STATUS

- PRE-REGULATION
 x CERTIFICATION
 - REVISED (SEE REMARKS)

TEST ENGINE STATUS

- NEWLY MANUFACTURED ENGINES
 x DEDICATED ENGINES TO PRODUCTION STANDARD
 - OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
 (ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
 x OUT OF PRODUCTION (DATE: -)
 - OUT OF SERVICE (DATE: -)

MEASURED DATA

MODE	POWER SETTING (%F ₀₀)	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO _x	
TAKE-OFF	100	0.7	1.320	0.28	0.80	25.70	13.2
CLIMB OUT	85	2.2	1.078	0.43	1.23	20.60	
APPROACH	30	4.0	0.383	1.60	4.17	9.10	
IDLE	7	26.0	0.137	3.33	12.27	3.70	
LTO TOTAL FUEL (kg) or EMISSIONS (g)			504	937	3229	5985	-
NUMBER OF ENGINES				1	1	1	1
NUMBER OF TESTS				3	3	3	3
AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX)				10.1	34.8	64.6	13.3
SIGMA (D _p /F ₀₀ in g/kN, or SN)							
RANGE (D _p /F ₀₀ in g/kN, or SN)							

ACCESSORY LOADS

POWER EXTRACTION 0 (kW) AT - POWER SETTINGS
 STAGE BLEED 0 (% CORE FLOW) AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	
TEMPERATURE (K)	275-288
ABS HUMIDITY (kg/kg)	

FUEL

SPEC	Jet A
H/C	1.89
AROM (%)	

MANUFACTURER: Pratt & Whitney
 TEST ORGANIZATION: P&WA
 TEST LOCATION: East Hartford, CT
 TEST DATES: 07/11/1983-30/11/1983

REMARKS

- All measurements by traverse.
- SCH 46-16B combustor.
- Applicable to JT8D-217, -217A, -217C.

Compliance with Fuel Venting requirements: - ('x' if complies, 'PR' if pre-regulation, '-' if information is not available)